

13142 U.S. PTO  
09/26/03

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PATENT

Attorney Docket No. LM(F)6455

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

22387 U.S. PTO  
10/672224  
09/26/03

### NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Inventor(s): Karen E. Petzold  
Stephen C. Smith

For (title): CROSS-CORRELATION SIGNAL DETECTOR

Enclosed are:

1. **Papers Required for Filing Date Under 37 CFR 1.53(b):**

- 27 Pages of specification
- 1 Pages Abstract
- 6 Pages of claims
- 4 Sheets of drawing
  - ☒ formal (Figs. 1-5)
  - ☐ informal

In addition to the above papers there is also attached: one Information Disclosure Statement (2 pgs), and one PTO 1449 Form (2 pgs)

### CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date September 26, 2003 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EU516996953US addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Jill Wolfe  
(Type or print name of person mailing paper)

Jill Wolfe  
(Signature of person mailing paper)

2. Declaration or oath:

- ☒ Enclosed  
☐ Not Enclosed.

3. Language:

- ☒ English  
☐ Non-English  
☐ A verified English translation of the  
☐ specification and claims  
☐ declaration  
is attached.

4. Assignment:

- ☒ An assignment of the invention to Lockheed Martin Corporation  
☒ is attached.  
☐ will follow

5. Certified Copy:

Certified copy (ies) of application (s)

| (Country) | (Appln. No.) | (Filed) |
|-----------|--------------|---------|
|           |              |         |
|           |              |         |
|           |              |         |

from which priority is claimed

- ☐ is attached  
☐ will follow

6. **Fee Calculation:**  
(Small entity filing fee is 50% normal fee)

| CLAIMS AS FILED                     |    |              |   |      |           |
|-------------------------------------|----|--------------|---|------|-----------|
| Number Filed                        |    | Number Extra |   | Rate | Basic Fee |
|                                     |    |              |   |      | \$ 750.00 |
| Total Claims                        | 20 | -20 =        |   | X    | \$ 18.00  |
| Independent Claims                  | 3  | - 3 =        | 1 | X    | \$ 84.00  |
| Multiple dependent claim(s), if any |    |              |   | +    | \$280.00  |

- ☐ Amendment canceling extra claims enclosed
- ☐ Amendment deleting multiple dependencies enclosed
- ☐ Fee for extra claims is not being paid at this time

Filing Fee Calculation \$750.00

7. **Small Entity Statement**

- ☐ Verified statement that this is a filing by a **small entity** under 37 CFR 1.9 and 1.27  
(Must be enclosed to get small entity filing fee reduction)

8. **Fee Payment Being Made At This Time:**

Enclosed:

- ☒ basic filing fee \$750.00
- ☒ assignment recordal fee \$ 40.00
- ☐ for processing an application with a specification in a non-English language \$
- Total fees enclosed \$790.00

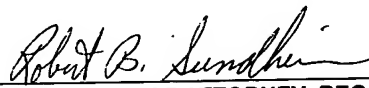
9. **Method of Payment Fees:**

- ☒ check in the amount of \$790.00 enclosed.
- ☒ The Commissioner is hereby authorized to charge any **DEFICIENCY** in the filing fees for this application to our Deposit Account No. 20-0090.

10. **Instructions As to Overpayment:**

- ☒ refund

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SIGNATURE OF ATTORNEY, REG. NO. 20,127

Robert B. Sundheim  
Type or print name of attorney